SIEMENS

DIGISCAN M

[redacted] SP

Update Instructions SP004/03/P

Title: Update from ASCR2/ASCR2B to ASCR3

Reason for update:		[X] Performance
Urgency:	[ ] Immediate	[X] Within 3 months
Update materials required?	[X] Yes	[ ] No
Material free of charge?	[X] Yes	[ ] No
Return of parts?	[ ] Yes	[X] No
Estimated completion time:	3 hours	Number of CSE's: 1 (one)
Customer Information?	[X] Yes	[ ] No

Systems/Products affected/System identifying IVK

Name	Material No.	Serial No.
DIGISCAN M	66 01 970	1001 - 1006, 1008, 1012, 1015 - 1018

Remark:

Components affected/to be modified

Name	Material No.	Serial No.	Component status affected
n.a.	n.a.	n.a.	n.a.

Remark:

Chg. Rev. No.: RBN S2090042
Name: Engman/Bark
Dept.: CS PS 24/SPS

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Document Revision Level

This document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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Systems/Products Affected

DIGISCAN M system (material no. 66 01 970) with version ASCR2/ASCR2B installed in serial number interval 1001 - 1018.

See table below for detailed designation of affected systems.

Country	Number of Update Kits	Serial Number on DIGISCAN M
Austria	1	1015
France	2	1002, 1003
Germany	3	1005, 1006,1017
Malaysia	1	1008
Netherlands	1	1016
Norway	1	1018
South Africa	1	1012
Spain	1	1004
Sweden	1	1001

Tab. 1 List of affected systems

Reason for the Update

New features added and software corrections according to customer complaints are made.

The version ASCR3 have the following new features:

- Examination of silicone breasts (customer complaint)
- Auto Filming (Auto Print)
- New position of image text (customer complaint)
- Communication switch (Opdima - DIGISCAN M)
- Printer release AGFA 4500, 4500M, 5200, Fuji FMDPL (LAN + server)
- Tool tips
- More languages (French and Spanish)
- Image processing PEM (Pattern Enhancement processing for Mammography) configurable
- Image Parameter setting for PEM & MFP (Multi-objective Frequency Processing)

Corrections made from version ASCR2/ASCR2B:

- Error in file Hosts while installing ASCR2
- Wrong focus written to DICOM file
- Barcode Reader change from PS2 to RS232
- Image Quality improvements (new LUT)

Prerequisites

Version ASCR2/ASCR2B must be installed.

Special Tools / Documents

- Calibrated luminance meter

Ordering Information

The following update kit has to be ordered from CSML (SAP Distribution Channel, factory 2050):

DIGISCAN M Update Kit BL4 -> ASCR3 **66 24 089 X052E**

Contents of the Update Kit

Update kit **66 24 089** contains the following parts:

Pos.	Quantity	Material No.	Name
1	1	66 24 469	Software CD ASCR3 incl. ***syngo***
2	1	66 24 477	W2000 Installation CD for ***syngo*** ASCR3 VB10A
3	1	66 53 864	Update Instructions SP004/03/P (this document)
4	1	66 31 027	Instructions for use, English
5	1	66 31 035	Instructions for use, German
6	1	66 31 043	Instructions for use, French
7	1	66 31 050	Instructions for use, Spanish
8	1	66 31 068	Instructions for use, Swedish
9	1	66 47 288	Supplement to Instructions for use, English
10	1	66 47 379	Supplement to Instructions for use, German
11	1	66 47 361	Supplement to Instructions for use, French
12	1	66 47 387	Supplement to Instructions for use, Spanish
13	1	66 47 395	Supplement to Instructions for use, Swedish
14	1	66 31 670	***Syngo*** Operating Instructions CD, English/German
15	1	66 31 688	***Syngo*** Operating Instructions CD, English/French
16	1	66 31 696	***Syngo*** Operating Instructions CD, English/Spanish
17	1	66 31 076	Quality Control Manual, English

Tab. 2 Contents of update kit.

Pos.	Quantity	Material No.	Name
18	1	66 31 084	Quality Control Manual, German
19	1	66 31 092	Quality Control Manual, French
20	1	66 31 100	Quality Control Manual, Spanish
21	1	66 31 118	Quality Control Manual, Swedish
22	1	66 08 090	Binder with Technical Documentation
23	1	66 24 261	Barcode Reader Cable
24	1	66 24 287	Barcode Reader Unit Cable
25	1	66 24 402	Dongle with Licence Key CD

Tab. 2 Contents of update kit.

Return of Parts

No parts shall be returned.

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Barcode Reader Cable connections

1. Remove the two old barcode reader cables from the system. Remove the old barcode reader unit cable from the barcode reader by inserting an unfolded paper-clip into the small hole on the barcode reader. Press and at the same time pull out the cable.
2. Remove the barcode decoder and connect the keyboard cable to the keyboard interface on the back of the Acquisition Workstation.
3. Connect the new barcode reader unit cable (mat. no. 66 24 287) to the barcode reader.
4. Mount connector DB9F and connector marked “SCANNER” to one of the cable holders according to Fig. 1.

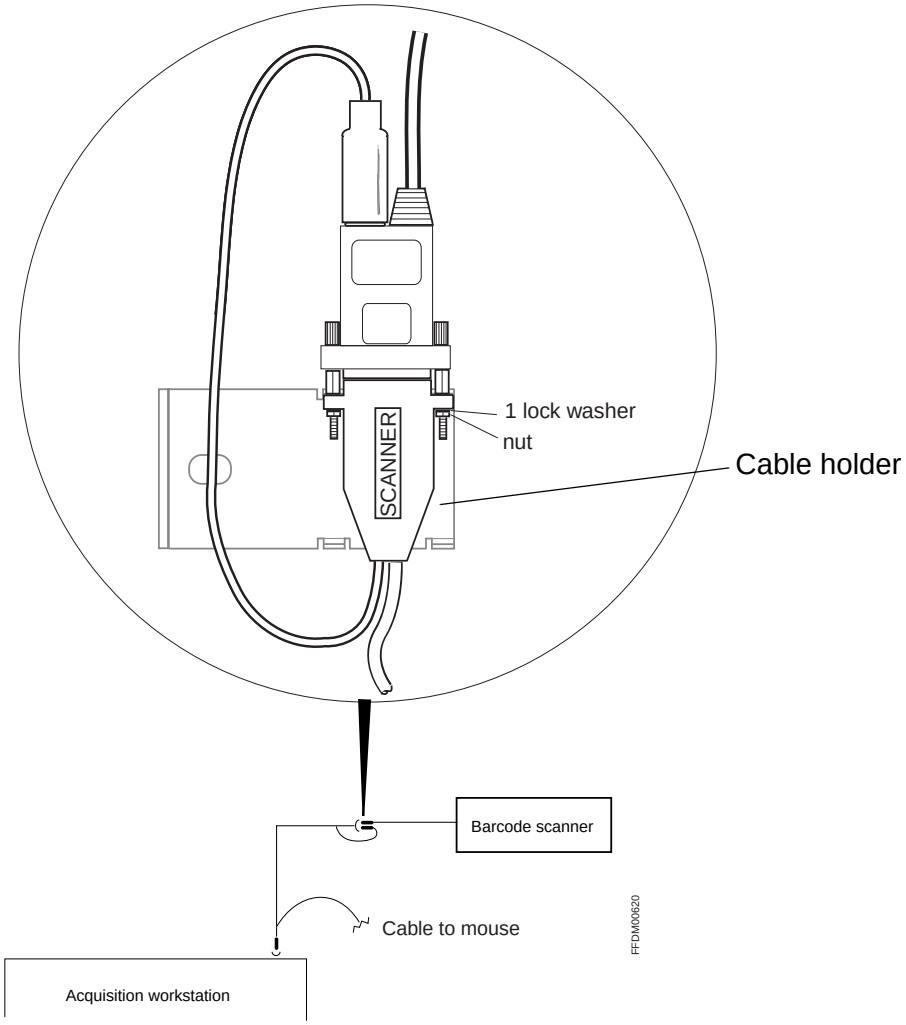


Fig. 1 Barcode cable mounted on cable holder

5. Fit the cable holder to the cable outlet cover with a new longer screw (16 mm) and two washers.

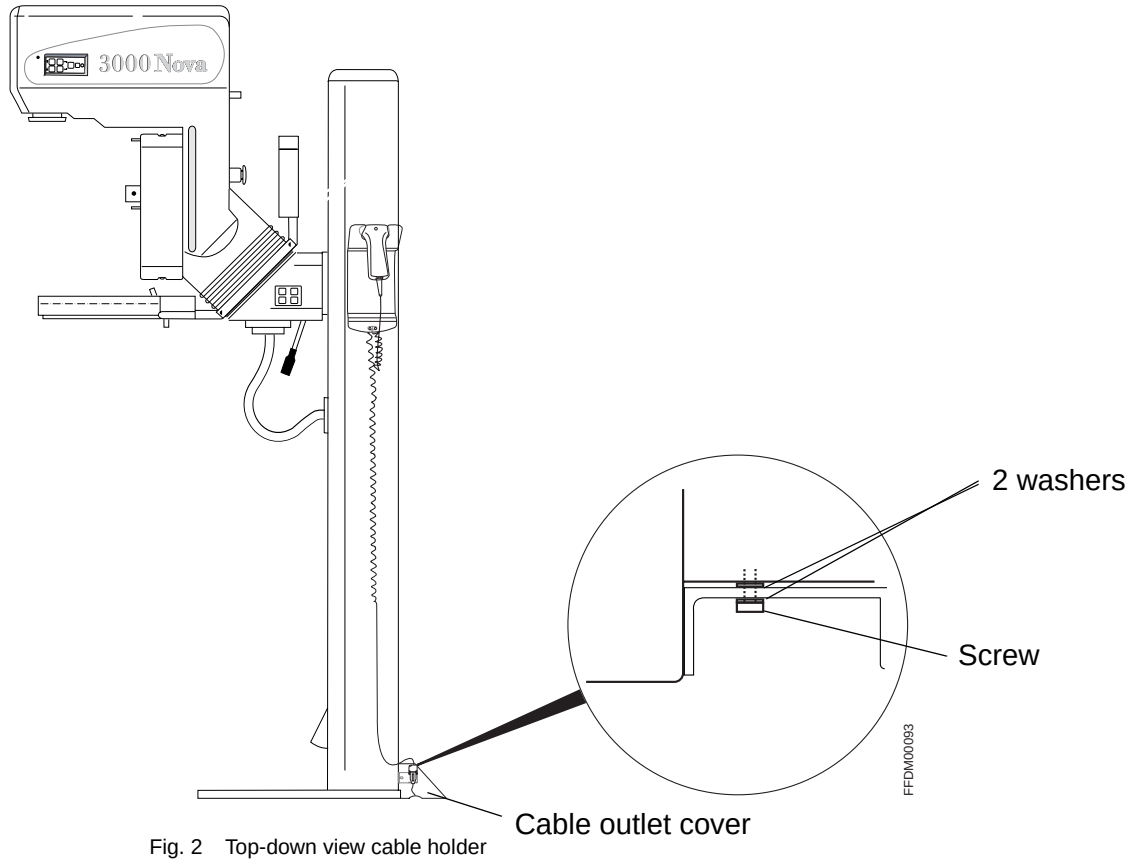


Fig. 2 Top-down view cable holder

Fig. 2 Top-down view cable holder

6. Connect the other two ends of the barcode reader cable to the Barcode Scanner Interface and Mouse Interface on the back of the Acquisition Workstation.

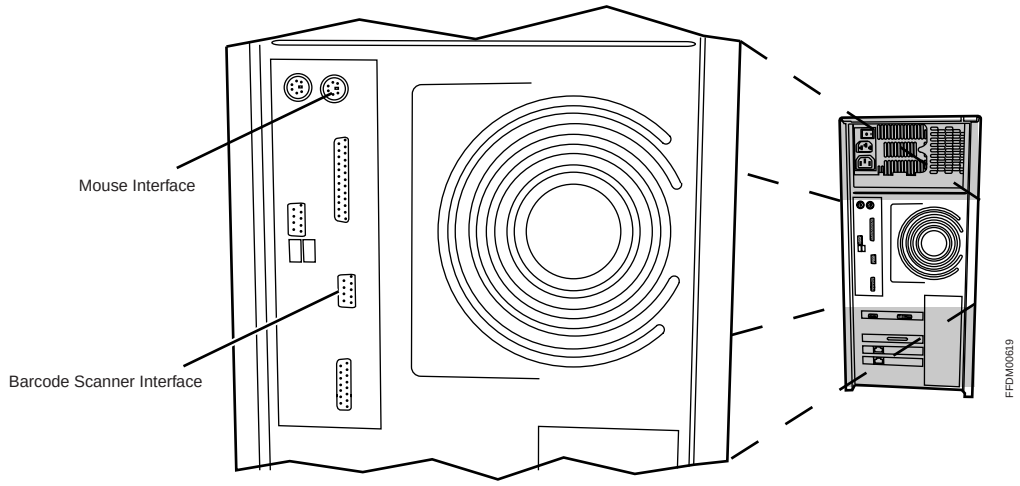


Fig. 3 Connection of barcode reader cable on Acquisition Workstation

Acquisition Workstation

Preparation

- Patient and examination data must be saved from the local database onto an external data medium, e.g. MOD, CD-R or archive system. For information about archiving, see DIGISCAN M Instructions for use, SPB7-420.201.01...

⚠CAUTION	**A software installation will erase the hard disk completely.** **Patient and examination data will get lost.** **Archive patient and examination data from the local database.**

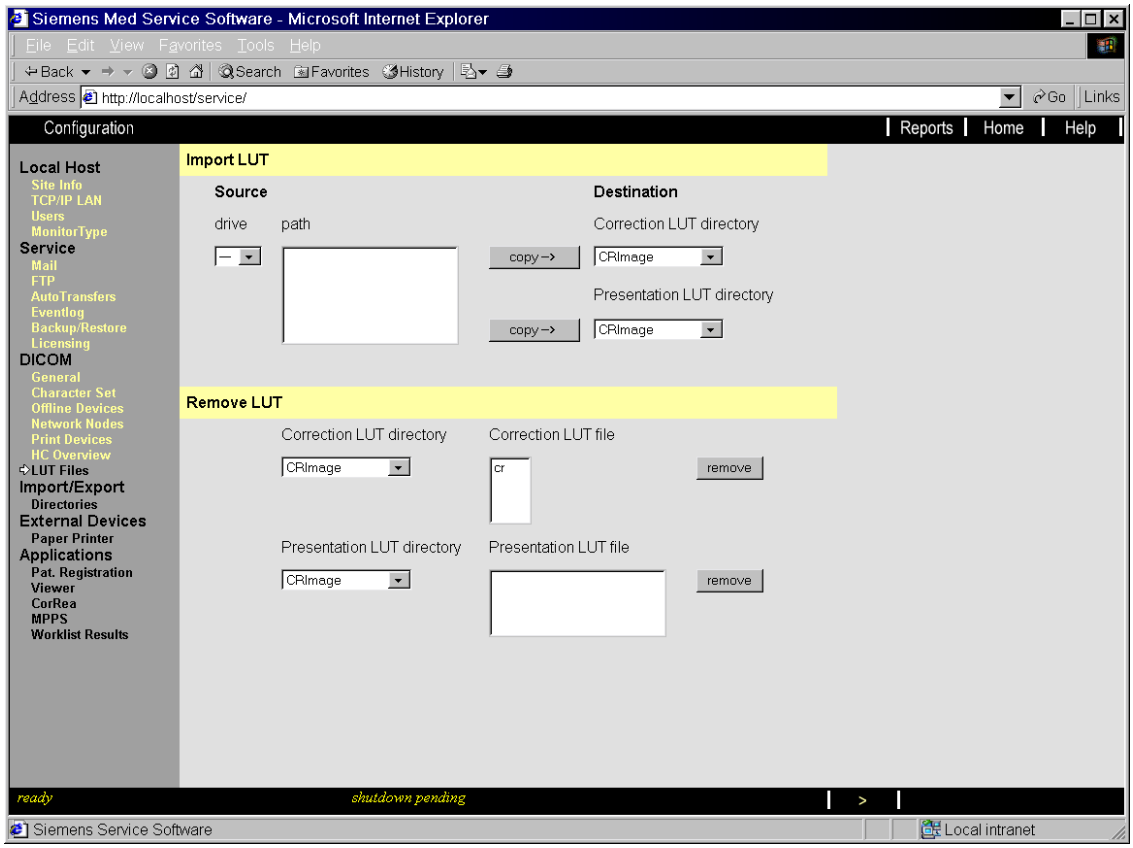
⚠CAUTION	**Due to *syngo* bugs, the Backup/Restore functionality is not 100% ensured.**

- Check if there is a backup of the ***syngo*** configuration, otherwise perform a backup according to chapter 8 in DIGISCAN M Software, Acquisition workstation, SPB7-420.816.01...
- Check if there is a protocol of the ***syngo*** configuration, otherwise write down all settings in the document DIGISCAN M Software, Acquisition workstation, SPB7-420.816.01...
- Check if there are any optional customer specific configurations and write them down.
- Replace the old dongle with the new one (mat. no. 66 24 402).

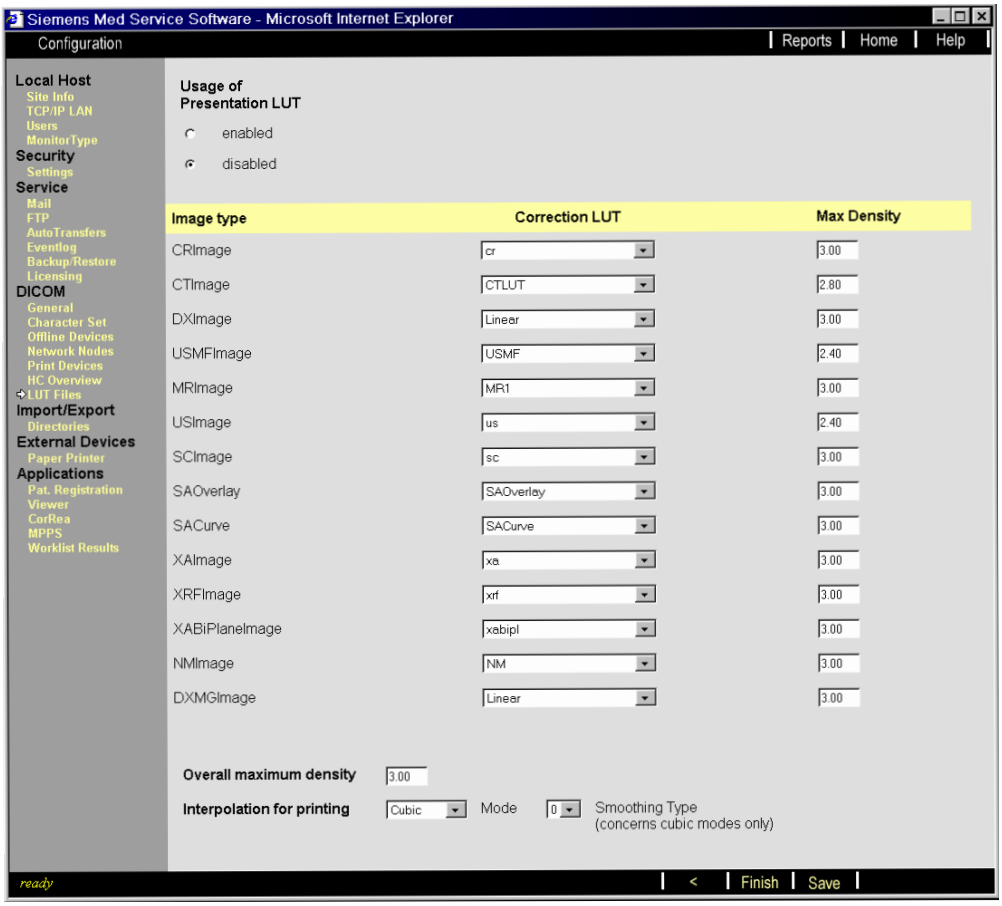
Installation and configuration of software ASCR3

Install and configure software ASCR3 according to the following chapters in DIGISCAN M Software, Acquisition workstation, SPB7-420.816.01...:

- **Chapter 3: Software installation if no pre-installed ASCRx.**
  - Exclude BIOS settings.
- **Chapter 8: Backup/Restore.**
  - Perform a Restore of the backup.
- **Chapter 5: Syngo configuration.**
  - Enter Local Service.
  - Select Configuration.
  - Check if all previous ***syngo*** configurations are there, if not correct configuration.
  - Select the LUT Files in the selection menu on the left under **DICOM.**



- Leave as it is.
- The next screen appears by clicking on **>** in the action bar.



- Check that the LUTs for the DXMGImage is "Linear".
If not, select "Linear". Select **Save** in the action bar if changes have been made to save the values that were entered. Acknowledge the message “...successfully saved” with **OK**.
Select **Next** or **Finish** in the action bar.
Select **Home** in the navigation bar and restart the AWS.

- **Chapter 8: Backup / Restore.**
  - Perform a backup of the new ***syngo*** configuration.

NOTE

Due to a known problem in the *syngo* software an error message (Fig. 4) will appear when the Home button is clicked. This error message is located behind the Configuration window and must be closed before the Service Home Menu will appear. To solve this problem move the Configuration window, locate the error message window and click the OK button to close it. The same message will appear a second time. Click OK again to close it. To return to the Home Menu window click on the Home button in the Configuration window.

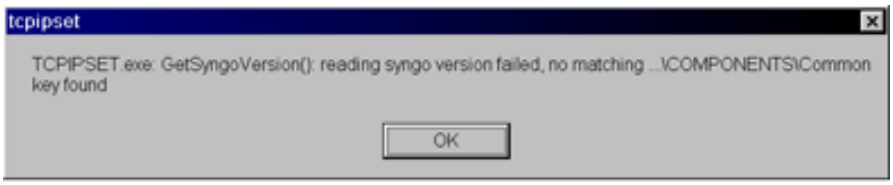


Fig. 4 Error message window

Start-up

Start-up the Acquisition Workstation according to the following chapters in DIGISCAN M Start-up, SPB7-420.815.01...:

- **Chapter 2: Start-up of the Acquisition Workstation**
  - Install service images
  - Configuration of the barcode scanner

Check

- Open file "WINNT / System 32 / drivers / etc / HOSTS" with the Notepad and check if the following row is seen:
  - 192.168.1.100 fcr 5000-n
- If not, add it.
- Save changes.

Switch on the System

- Switch on the image reader.
  - Booting takes approximately 5 minutes until the utility screen will be displayed.
- Switch on the MAMMOMAT 3000 Nova.
- Switch on the viewing station (option) and start the application.
- Switch on the hardcopy camera (recommendation).
- Switch on the acquisition workstation and login as meduser.
  - After approximately 30 seconds the Examination task card will be displayed.
- Register all IP cassettes according to DIGISCAN M Instructions for use, SPB7-420.201.01

Function Check of the Acquisition Workstation

Image transfer

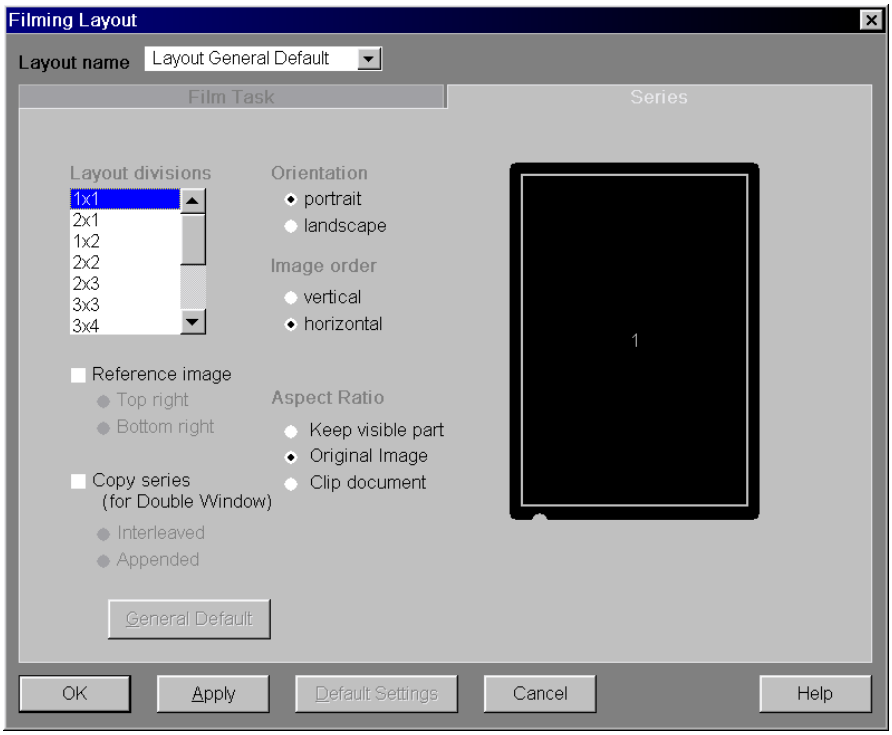
NOTE	**For detailed information how to perform an examination, see DIGISCAN M Instructions for use, SPB7-420.201.01... .**

- Activate the **Examination** task card at the acquisition workstation.
- Click on the **Patient Registration** button and register a patient with the following entries:
  Last name: enter the name “Function check”.
  Date of Birth: enter the current date.
  Sex: select **Other**.
- Click on the **Exam** button to finish the registration.

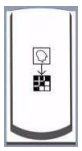
- Slide the L-cc label on the object table into the beam path.
- Expose an 18x24 mm IP cassette in the MAMMOMAT 3000 Nova using a 4 cm plexi.
- Read barcode for exposed IP cassette.
- Read the projection view barcode **L-cc**.
- Read the IP cassette in the image reader.
- After approximately 100 seconds, the image should have arrived at the acquisition workstation.
- Click on the **End of examination** button to exit the examination.
- Depending on the work routine of the hospital, ensure that the image is archived on the MOD and/or CD-R, and/or sent to an archive system and/or viewing station.
- Following the above-listed procedure, expose and read out another image. Use the same patient data but slide the R-cc label into the beam path and read the projection view barcode **R-cc**.
- After the last image was displayed on the acquisition workstation, check in the **Patient Browser** that the two images have been filed in **one** folder.

Filming (option)

- Activate the **Viewing** task card.
- Call up **Options > Configuration... > Filming Layout**.
- Select the **Series** tab.



- Under **Aspect Ratio** select **Original Image**.
- Press **Apply** and then **OK**.
- Select one of the images in the **Patient Browser**.
- Call up **Patient > Copy to Film Sheet** in the main menu or by using the symbol keypad.



- Switch to the **Filming** task card.
- In **Camera** tab, select Film Size **Inch 11x14**.
- Call up **Film > Expose Film Sheet**.
- Check that the image is exposed in normal size and without any deformation.
  Make sure that the two projection views displayed in the image are shown from the same side.

Image Quality Check

Perform the test "Display and print conformity" in the DIGISCAN M Quality Control Manual, SPB7-420.210.01... and fill out the Test report protocol accordingly.

Labeling

Version Label

Replace version label ASCR2 on the back of the acquisition workstation with version label ASCR3.

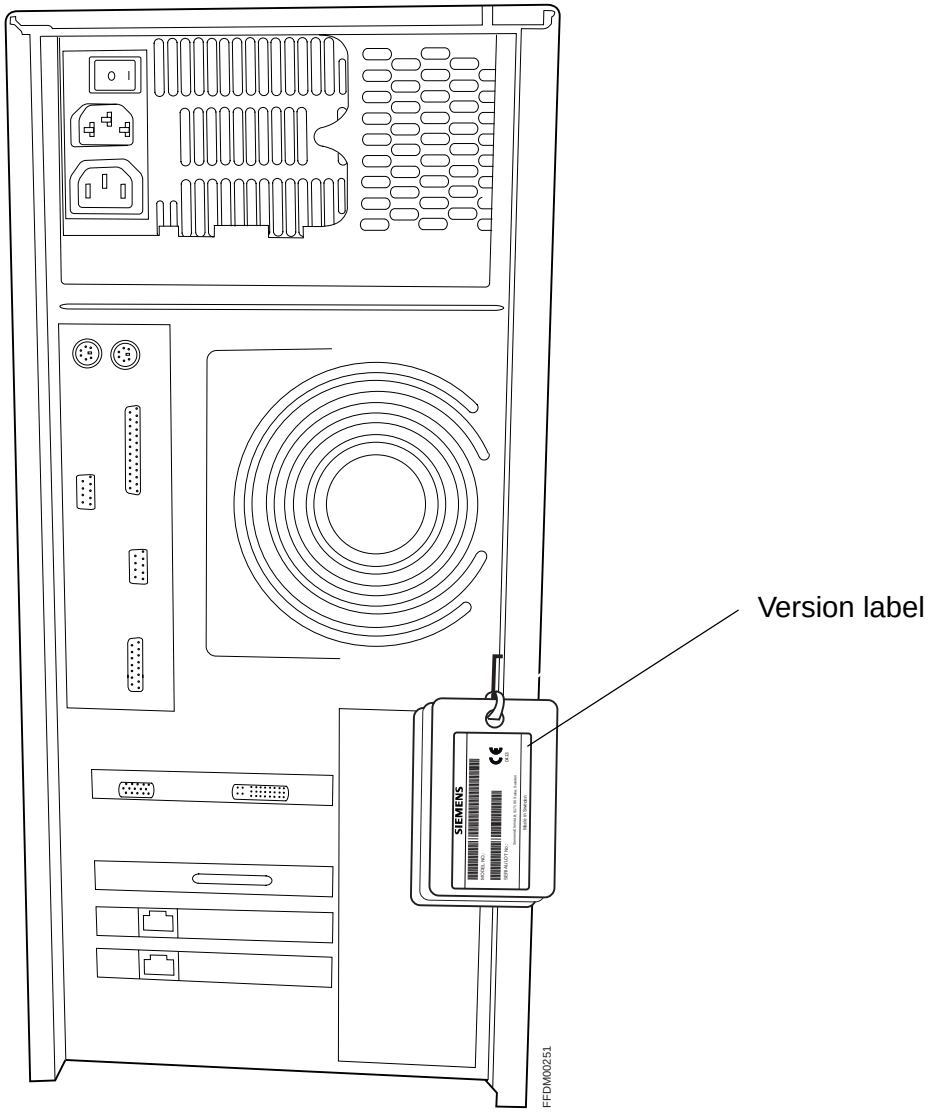


Fig. 1 Version label on the acquisition workstation

Final Work Steps

- Update the system documentation.
  Update the revision level, the operating instructions and the technical documentation. Fill out, and if needed, make a copy of the attached "Completion Protocol/ Update Completion Form" and file it in the corresponding System Binder/User Handbook.
- This update includes an IVK.
  - Changes in the IVK structure must be reported to the management system to correct the installed volume.
- Updates that have already been completed prior to publication of this UI must also be reported.
- The update is reported as follows:
  - The modification reply cards (Type 606) previously distributed with the publication of updates no longer apply.
  - The modification reply report has to be prepared by authorized personnel using an application on the Intranet.

Customer Information

Inform the customer about the new features, corrections made from earlier version and that the Instructions for Use and technical documentation is updated and available.

Completion Protocol

The update with the number **SP004/03/P** has been completed.

Material Number:.....66 01 970.....

Serial Number: .....

Customer: ..... Site: .....

Customer No.: .....

Name (CSE): ..... Telephone: .....

Country: ..... Location: .....

Date: ..... Signature: .....

Remark: .....

.....

NOTE **After completing the update, make a copy of this page, fill it out and file it in the corresponding System Binder/User Handbook.**

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